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CENTRAL INTELLIGENCE AGENCY

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REPORT

COUNTRY USSR (Moscow and Leningrad Oblasts)/Germany (SovZone)DATE DISTR. 28 October 1952

SUBJECT Television Development at NII 160 in Fryazino, NII

380 in Leningrad, and in the Soviet Zone of Germany

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in Berlin, Zehlendorf, Goertz Allee.

There were about 250 men employed at the plant, which was engaged in producing senders and receivers (wave length of about 70 cm) for the Reichs Post. In July 1943 the plant was moved to Tannwald, Czechoslovakia. Sometime before the end of the war, Dr. Rols Mueller took half of everything in the plant and moved to Taufkirken in Bayern. This was to prevent total distruction in case of bombing. The group that remained at Tannwald was under the direction of Dr. Schubert. He was later carried away by the Soviets and has not been heard of since.

The Czechs seized the plant in May 1945 but at the end of the war, July 1945, the

2. The Czechs seized the plant in May 1945 but at the end of the war, July 1945, the Soviets took over everything at Tannwald. All men between 18 and 65 years of age were ordered away. Everything in the plant was well packed, crated, and shipped to Moscow.

The machinery had been badly handled in transport and much of it was in poor condition upon arrival. 50X1-HUM

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Sanitized Copy Approved for Release 2011/02/23 : CIA-RDP82-00457R014300040008-5 However, with the help of 30 Russians, of which 3 were engineers set up a plant in an old and 5 technicians. 50X1-HUM institute consisting of 12 or 15 empty rooms. The plant produced and tested all parts for the Moscow TV sender, and was known as SKB833 (Special Construction Burgass). The technical director was Fedorow, an engineer but by no means an expert, who got his job through family connections. 50X1-HUM Dr Legler did the theoretical and design work 50X1-HUM up to 20 technically trained Russians in These had little initiative and imagination. the plant. They did learn quickly to imitate, copy, and follow instructions.

difficulty with them was "turn over"--as soon as a 50 50X1-HUM man became fairly well acquainted with his job he would be transferred to some other plant. division worked on:
1) frequency meters (Range O.1 to 20 mega Hz in three stages), 50X1-HUM 2) frequency curve tracer, 1 e, cathode ray trace on a fluorescent screen, 3) amplifiers for the Moscow TV sender. build only the first pattern or model. The production was carried 50X1-HUM had a monthly out somewhere else 50X1-HUM plan but no quota TV reception from Moscow - airline 50 km was reasonably good. made no experiments with color TV. 50X1-HUM

50X1-HUM There was no lack of materials. brought practically everyastonished at the from Tannwald. thing number of instruments, switches, tubes, and automatic machines the USSR which had come from The Russians were The use of parts conable to copy these with good success. taining Russian iron usually resulted in poor and uncertain results. Russian iron gradually improved and it was satisfactory for use in radio parts.

The plant a short distance out of Moscow. Everything was managed by the director of the plant.

prices were extremely high and there was little to be bought. The Russians stole everything, from trinkets to TV picture tubes. These could then be bought on the market.

A new regulation went into effect late in 1946 pay as a development engineer was increased from 880 to 2500 Rubles per month.

6. In the spring of 1948, Germans from the SKB-Moscow were sent to Leningrad, where a new TV laboratory and sender was to be built. It was said that secret work (magnetron research) was to be started at the Moscow plant. Living conditions were much better in Leningrad.

A German school was provided for the German children. (Russian history was always taught, however.) The common Russian people were appreciative and kind

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Adlershof Barracks, Berlin. There were about 20 engineers and technicians in the development laboratory and the same number in the production division. The buildings were new and well equipped. Augustine, a derman, was an charge of the building.

Heiss was the general supervisor of all senders in DDR. He was a Russian who traveled back and forth to Moscow frequently.

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Herman Stier was the general director of the laboratory. The production group was under the direction of Werner Hoffman. Hasz was in charge of high vacuum development work. This work with broadcast development is considered very secret and has been moved to a new building near Ostkreuz Bahnhof. Maurer is the iconoscope specialist.

11. Other sections of the development laboratory were:

(a) Control and measuring instruments, including power supply and wiring

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(b) Low frequency receivers

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- (c) High frequency research
 Director Sohr
- (d) Synchronization
- (e) Camera development and testing
 Director Werner Hoffman
- (f) Optics
 Director Linder
- (g) Construction
- (h) Amplifiers (2 men)

(i) Signal (2 men)

12. A total of about 50 men worked in the experimental laboratory.

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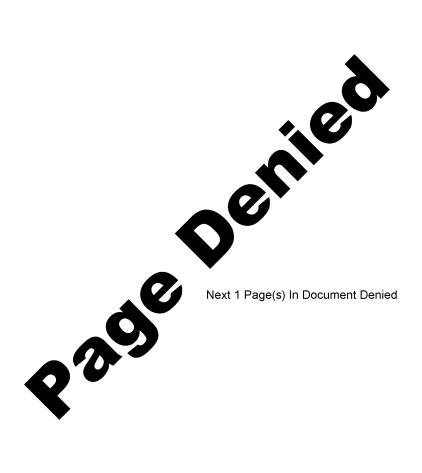
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The laboratory was called Zentral Laboratorium der Generalintendanz, Berlin-Adlersdorf, Rudower Chaussee 116 There seemed to be ample funds for all work. The equipment was adequate and good. The laboratory was guarded by a fence and dogs.

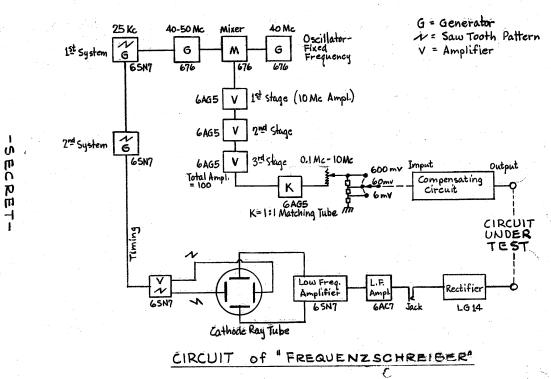
Women served as guards and admission was by pass only. The sender at Adlershof beamed its programs by short wave (less than 1 meter) to the city hall (Stadthaus) where it was broadcast. One sideband was used. Pictures were broadcast on 99.9 mega Hz and tone on 106.4 mega Hz. The band width was 6.5 mega Hz. For scanning, 625 lines were used. Output at the city hall was 150 watts. Poor tubes accounted for the low power. The oscillator had been built by Zwaenitz, a Soviet factory in the Erzgebirge. It had to be rebuilt before it would operate satisfactorily. This same company also supplied parts for the Leningrad sender. Receivers were built in Radeberg by Sachsenwerke. The cabinets are large (roughly 1 m x .8 m x .5 m); the picture screen is about 18 x 18 cm. Tubes are still poor and not completely reliable.

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ENCLOSURE (B): Circuit of "Frequenzschreiber"



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Attachment